

INTERNATIONAL SEARCH REPORT

International Application No
 PCT/EP2004/052400

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B15/013

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07, 31 July 1997 (1997-07-31) & JP 09 071404 A (MITSUBISHI GAS CHEM CO INC), 18 March 1997 (1997-03-18) cited in the application abstract	1-7, 10-12
Y	-----	8,9
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07, 31 July 1997 (1997-07-31) & JP 09 071405 A (MITSUBISHI GAS CHEM CO INC), 18 March 1997 (1997-03-18) cited in the application abstract	1-7, 10-12
Y	-----	8,9
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

4 January 2005

Date of mailing of the International search report

12/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3018

Authorized officer

Engelen, K

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/052400

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 930 269 A (AUSIMONT SPA) 21 July 1999 (1999-07-21) cited in the application claims 1-9 example 5; table 2 page 2, line 3 - line 5 page 3, line 1 - line 22 -----	1-5, 10-12
A		6-9
X	EP 1 167 290 A (SANTOKU CHEMICAL IND CO LTD) 2 January 2002 (2002-01-02) page 2, line 24 - line 30 page 8, line 47 - line 48 page 9, line 41 - line 45 example 1 -----	1-5, 10-12
A		6-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/052400

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
JP 09071404	A 18-03-1997	NONE			
JP 09071405	A 18-03-1997	NONE			
EP 0930269	A 21-07-1999	IT	MI980072 A1		16-07-1999
		IT	MI981394 A1		20-12-1999
		DE	69904090 D1		09-01-2003
		DE	69904090 T2		04-09-2003
		EP	0930269 A1		21-07-1999
		US	2001009655 A1		26-07-2001
EP 1167290	A 02-01-2002	JP	2002080209 A		19-03-2002
		CN	1328956 A		02-01-2002
		EP	1167290 A2		02-01-2002
		SG	95647 A1		23-04-2003
		TW	526168 B		01-04-2003
		US	2004202588 A1		14-10-2004
		US	2002015676 A1		07-02-2002